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Date of Signature and Deposit: November 19, 2002

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PATENT

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: William F. Dove  
Alexandra Shedlovsky

Date: November 19, 2002

Serial No.: 09/114,973

Group Art Unit: 1632

Filed: 07/14/98

Examiner: J. Woitach

Title: METHOD FOR IDENTIFYING  
MUTANTS AND MOLECULES

Docket No.: 960296.95491

AMENDMENT

Commissioner For Patents  
Washington DC 20231

Dear Sir:

In response to an Office Action mailed June 19, 2002, please amend the claims as follows:

In the Claims:

Please amend Claims 1, 7, 23, 25-28, 30, 36 and 40 as follows:

1. (Amended Three Times) A method for identifying a segregating single point mutation at a genetic locus that modifies an index phenotype in a non-human index inbred strain, the segregating mutation causing an outlying phenotype relative to the index phenotype, the method comprising the steps of:

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outcrossing at least one male animal of a non-human founder inbred strain to at least one female animal of a non-human index inbred strain to obtain F1 progeny, the founder inbred strain carrying random point mutations relative to a wild-type animal of the founder inbred strain, the index inbred strain carrying a congenic dominant allele at a locus known to confer the index phenotype and being genetically distinguishable from the founder inbred strain,

identifying one or more F<sub>1</sub> individuals displaying an outlying phenotype relative to the